

PYTHON ASSIGNMENT – 5

Program

```
def display_menu():
    print("\nOptions:")
    print("1. Add Task")
    print("2. Remove Task")
    print("3. View Tasks")
    print("4. Exit")

def add_task(tasks):
    task = input("Enter the task: ").strip()
    if task and task not in tasks:
        tasks.append(task)
        print(f"{task}" added successfully!")
    else:
        print("Invalid or duplicate task!")

def remove_task(tasks):
    if not tasks:
        print("No tasks to remove.")
        return

    view_tasks(tasks)

    try:
        index = int(input("Enter the task number to remove: ")) - 1
        if 0 <= index < len(tasks):
            removed_task = tasks.pop(index)
            print(f"{removed_task}" removed successfully!")
        else:
```

```
        print("Invalid task number!")
except ValueError:
    print("Please enter a valid number!")

def view_tasks(tasks):
    if not tasks:
        print("No pending tasks.")
    else:
        print("\nPending Tasks:")
        for idx, task in enumerate(tasks, start=1):
            print(f'{idx}. {task}')

def main():
    tasks = []
    while True:
        display_menu()
        choice = input("Choose an option: ")

        if choice == "1":
            add_task(tasks)
        elif choice == "2":
            remove_task(tasks)
        elif choice == "3":
            view_tasks(tasks)
        elif choice == "4":
            print("Goodbye! Have a productive day!")
            break
        else:
            print("Invalid choice! Please select a valid option.")
```

```
if __name__ == "__main__":  
    main()
```

Output

Options:

1. Add Task
2. Remove Task
3. View Tasks
4. Exit

Choose an option: 1

Enter the task: Eating

"Eating" added successfully!

Options:

1. Add Task
2. Remove Task
3. View Tasks
4. Exit

Choose an option: Sleeping

Invalid choice! Please select a valid option.

Options:

1. Add Task
2. Remove Task
3. View Tasks
4. Exit

Choose an option: 1

Enter the task: Sleeping

"Sleeping" added successfully!

Options:

1. Add Task
2. Remove Task
3. View Tasks
4. Exit

Choose an option: 3

Pending Tasks:

1. Eating
2. Sleeping

Options:

1. Add Task
2. Remove Task
3. View Tasks
4. Exit

Choose an option: 2

Pending Tasks:

1. Eating
2. Sleeping

Enter the task number to remove: 1

"Eating" removed successfully!

Options:

1. Add Task
2. Remove Task
3. View Tasks
4. Exit

Choose an option: 3

Pending Tasks:

1. Sleeping

Options:

1. Add Task
2. Remove Task
3. View Tasks
4. Exit

Choose an option: 4

Goodbye! Have a productive day!